

Permabond A1058

A1058 Anaerobic Pipe Sealant

Permabond A1058 is a highly viscous anaerobic sealant designed for use on threaded metal pipe connections carrying a wide variety of gases and liquids. Suitable for use on both parallel and tapered threads larger than 3/8" BSP, the delayed cure allows accurate alignment of components. Permabond A1058 can provide an instant pressure seal, minimizing down time and speeding up production processes. Unlike PTFE tape or hemp, Permabond A1058 will not shred or dry out and so will provide a durable seal, helping to extend the life of the components.



A1058 is ideal for pipe-sealing applications

- Single part room temperature curing
- Easy to use
- Solvent free
- Chemically resistant
- Water Byelaws Scheme approved

Summary:
High Viscosity
Low Strength
Pipe Sealant

PHYSICAL PROPERTIES

Colour	Off-White
Viscosity @25°C	300,000 mPa.s
Maximum Gap Fill	0.5 mm
Density	1.14

TYPICAL PROPERTIES

Handling Strength	1-2 hours*
Working Strength	2-4 hours*
Full Strength	36-48 hours
Shear Strength	8 MPa
Torque Strength (M8 nuts & Bolts)	8 Nm
Temperature Range	-55 to +150°C

*Depending on the nature of the pipework and the thread form, joints assembled using Permabond A1058 may be adjusted for alignment up to 16 hours after assembly. For pipe diameters below 3/8" BSP, or where fine thread forms are involved, the use of Permabond A131 may be preferable.

Cure times are typical for steel at 23°C (73°F). Copper and its alloys will be faster while oxidised or passivated surfaces like stainless steel will be slower. Temperature will also effect the cure - for every 8°C (15°F) rise in temperature you halve the times given; for every 8°C (15°F) drop in temperature, the stated cure time doubles.

Permabond[®]
 Engineering Adhesives

TEMPERATURE RESISTANCE

Thermal resistance is excellent between -55 and 150°C. Heating causes the adhesive to soften but strength is regained on cooling provided 150°C is not exceeded for prolonged periods.

A1058 is resistant to a variety of chemicals such as water, oils, fuels and refrigerants, although very aggressive environments such as strong acids, alkalis and very polar solvents should be avoided.

A1058 should not be used in pure oxygen systems.

Storage and Handling

When stored in the original unopened containers at 5-25°C, the shelf life of this product is two years from the date of despatch from Permabond.

Please also read the Material Safety Data Sheet. Users are reminded that all materials, whether innocuous or not, should be handled according to the principles of good industrial hygiene.

Directions for use:

- Surfaces should be clean, dry and grease free prior to bonding. Abrading and degreasing the surface will give a much stronger bond. (MEK or similar solvent can be used to degrease surfaces.)
- If bonding unreactive metals such as aluminium, titanium or zinc, we would recommend using Permabond A905 surface conditioner.
- Apply adhesive to the leading edge of both male and female components and assemble parts.
- Parts can be adjusted for up to 16 hours after assembly.

Other Products in the Permabond Range...

Cyanoacrylate adhesives...

General purpose
Low bloom / Low odour
High temperature resistance
Metal bonding
Flexible
Toughened



We also have a new polyolefin primer for pre-treating polypropylene, polyethylene, PTFE. For use with cyanoacrylate adhesive.



Anaerobic adhesives...

Threadlocking
Pipe-sealing
Retaining
High temperature resistance
Toughened
Variety of viscosities and strengths available

If you require help with an application, please contact the Permabond team for technical advice on surface preparation, joint design, adhesive selection and how to optimise your production process.

The information given and the recommendations made herein are based on our experience and are believed to be accurate. No guarantee as to, or responsibility for, their accuracy can be given or accepted, however, and no statement herein is to be treated as a representation or warranty. In every case we urge and recommend that purchasers, before using any product, make their own tests to determine, to their own satisfaction, its suitability for their particular purposes under their own operating conditions.

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